

**ABSTRACT**  
**CATTLE REPRODUCTIVE DISEASE VACCINES**

The present invention relates to combination vaccines and methods for treating or preventing diseases or disorders in an animal caused by infection by Bovine Viral Diarrhea Virus (BVDV) Types 1 and 2, Bovine Herpes Virus Type-1 (BHV-1), Bovine Respiratory Syncytial Virus (BRSV), Parainfluenza Virus (PI<sub>3</sub>), *Campylobacter fetus*, *Leptospira canicola*, *Leptospira grippotyphosa*, *Leptospira hardj-prajitno*, *Leptospira icterohaemorrhagiae*, *Leptospira hardjovis* and *Leptospira pomona* by administering to the animal an effective amount of a combination vaccine. The combination vaccine can be a whole or partial cell inactivated or modified live preparation.